

What is Claimed is:

1. A heated seat assembly comprising:
 - a seat surface material;
 - a heating element fixed inside said seat surface material, said heating element comprising:
 - a base material made of a hotmelt material; and
 - a linear heater disposed on said base material; and
 - a resin filled inside of said seat surface material and covering said heating element.
- 10 2. The seat assembly of claim 1, wherein said linear heater is fixed onto said base material by one of adhesion and sewing.
3. The seat assembly of claim 1, wherein said base material is in a form of one of sheet and mesh structure.
4. The seat assembly of claim 1, wherein said base material is made of fibrous material.
- 15 5. The seat assembly of claim 2, wherein a thread used for said sewing is made of hotmelt material.
6. The seat assembly of claim 1, wherein said linear heater has a hotmelt layer formed around an outer periphery of a heating element.
- 20 7. The seat assembly of claim 1, wherein said linear heater has a braided structure with a plurality of conductors and threads.
8. The seat assembly of claim 7, wherein a number of said threads forming said linear heater is not less than a number of said conductors.
9. The seat assembly of claim 8, wherein said linear heater has a structure wherein said conductors do not cross with each other.
- 25 10. The heating element of claim 7, wherein said conductor has an insulating coating layer.
11. The seat assembly of claim 10, wherein said insulating coating layer is lubricant.
- 30 12. The seat assembly of claim 10, wherein said insulating coating layer is colored for indication.

13. The seat assembly of claim 7, wherein said thread is lubricant.
14. The seat assembly of claim 13, wherein said thread comprises one of fibers coated with highly lubricant material and highly lubricant fibers.
15. A method of manufacturing a heated seat assembly, comprising the
5 steps of:
 - preparing a heating element and a seat surface material, said heating element comprising a base material of mesh structure and a linear heater;
 - fixing said heating element onto said seat surface material; and
 - integrating said seat surface material, said heating element, and filling
10 resin.
16. The method of claim 15, wherein said heating element and said seat surface material are fixed by one of adhesion and hotmelt bonding.
17. The method of claim 15, wherein said linear heater is fixed by sewing onto said base material.
- 15 18. The method of claim 15, wherein said linear heater has an outer layer which melts at a molding temperature of said filling resin.
19. The method of claim 15, wherein said base material is made of a material which melts at a molding temperature of said filling resin.
20. The method of claim 15, wherein said filling resin is a urethane resin.
21. The manufacturing method of claim 15, wherein said filling resin is formed by foaming injection molding.